

ABSTRACT OF THE DISCLOSURE

An apparatus for controlling gas valves of a gas drier prevents gas leakage in case of ignition failure and reduces the risk of accidents accordingly. The gas drier includes an igniter having a first terminal connected to a power supply terminal to ignite a gas; a flame detection switch having a first terminal connected to a second terminal of the igniter, to maintain a closed state at a normal operating state time, the flame detection switch being a normally closed type switch that is opened when a flame of the igniter is detected; a thermostat switch having one terminal connected to a second terminal of the flame detection switch, to maintain a closed state at a normal operating state, the thermostat switch being a normally closed type switch that is opened by a detection of a state of overheating; a first valve coil having one end grounded; a second valve coil having one end connected to the first terminal of the flame detection switch; a sustaining relay; and a rectifier bridge having an output terminal tied in common to the first and second valve coils and the operating coil of the sustaining relay and a pair of input terminals respectively connected to the sustaining relay and the first terminal of the flame detection switch. The sustaining relay includes an operating coil, having one end connected to the other end of the first valve coil and the other end grounded, and a pair of contacts respectively connected across the flame detection switch.